

## **Science Content Standards covered in this presentation:**

### **Grade 3**

g. Students know that when two or more substances are combined, a new substance may be formed with properties that are different from those of the original materials.

### **Grade 6**

Heat moves in a predictable flow from warmer objects to cooler objects until all the objects are at the same temperature. As a basis for understanding this concept:

- a. Students know energy can be carried from one place to another by heat flow or by waves, including water, light and sound waves, or by moving objects.
- b. Students know that when fuel is consumed, most of the energy released becomes heat energy.
- c. Students know heat flows in solids by conduction (which involves no flow of matter) and in fluids by conduction and by convection (which involves flow of matter).
- d. Students know heat energy is also transferred between objects by radiation (radiation can travel through space).

### **Grade 9-12**

Chemistry, Gases and Their Properties

6a. Students know the definitions of solute and solvent.

7a. Students know how to describe temperature and heat flow in terms of the motion of molecules (or atoms).